BR No
Date

1st & final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE
(For Other Works)

SBR No
Date

Date:
Sub- Division:

No.

Division: Electrical (DASARAHALLY)

Bill Received on .....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket Name of Work (as per sanctioned estimate) Upgradation of lighting of Bangalore Major roads current works

Contractor and Full Address: m/S Sri Lakshmi Varadaraja Electrical Stores

Work Order No: : EE/(Elec)/DZ/WO/0000018/2017-18 Dated :12-02-2018

Reference to Agreement Date ..... Job No:- 014-17-000041

Certified that the measurements were taken by me on 9.5.2018 and recorded of pages 5127 to 781 of Measurement Book No 5128 and that the work is satisfactorily executed.

Sri Lakshmi Varadaraja Electrical Stores
Contractor

Officer in charge of work

Certified that the measurements were taken by me on and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-division Officer

II Memorandum of Payment

86) Total value of work done or supplies as per account within	BMP ANT 968985=00
87) Deduct amount to be held in reserve being .....percent Rs.....	I.T. 1% 9690
88) " Balance	LWC 1% 9690
89) Deduct payment :	CBF 0.1% 970
ii) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... Amount adjusted towards cash advance recovery of	Fine 950
jj) Payments cost store or other material supplied. Now made recovery amount creditable to this/ other work	TD 21300
Amount paid on this bill cheque/cash	Net 947635
90) Balance being unpaid value of work done held in reserve	
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments	
7) Net amount due to or from contractor	
Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	

Sri Lakshmi Varadaraja Electrical Stores
Proprietor
Contractors Signature

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

Dated .....Signature of Contractor

Paid by me by cheque No.....Dated.....

Cash Rs.....

Initials of Officer making payment

Audited and admitted for Rs. 968985

(For use in the office)

Passed by Cheque for Rs. 947635

Nine lakh forty seven thousand six hundred & thirty five

by adjustment Rs. 21300

Executive Engineer (Ele)

Accounts Superintendent

Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

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Sl. No	Description of Item	Unit
	Name Of Work:-Upgradation of lighting of Bangalore Major roads current works	
1	Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	Each
2	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each
3	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length	Each
4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255.1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ.MM	Per Mtr
5	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
6	Suspension clamp assembly 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page no 16 of 34, Sl no 51.17.	Each
7	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 o 34, Sl no 51.16.	Each
8	Universal Hook and Bolts and Nuts, Bescom SR of 2010-11, Page no 16 of 34, Sl no. 51.15.	Each
9	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, Sl No 26.6.	Each
10	Erection of Anchor Clamp - 25 to 95 Sq. mm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, Sl no 26.7.	Each
11	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Per Mtr
12	3.5 core 25 sqmm	Per Mtr
13	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Per Mtr
14	b)25sqmm to 75 sqmm	Per Mtr
15	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Per Mtr

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Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
	Qty	Cost	Qty	Rate	Amount	Qty	Cost	
Each			29	5000.00	145000.00	29	145000.00	
ach			4	11000.00	44000.00	4	44000.00	
Each			5	1000.00	5000.00	5	5000.00	
er Mtr			1796	145.00	260420.00	1796	260420.00	
er Mtr			1796	10.00	17960.00	1796	17960.00	
Each			70	65.00	4550.00	70	4550.00	
Each			20	25.00	500.00	20	500.00	
Each			70	10.00	700.00	70	700.00	
Each			70	15.00	1050.00	70	1050.00	
Each			70	15.00	1050.00	70	1050.00	
er Mtr			95	125.00	11875.00	95	11875.00	
er Mtr			196	150.00	29400.00	196	29400.00	
er Mtr			95	10.00	950.00	95	950.00	
er Mtr			196	10.00	1960.00	196	1960.00	
er Mtr			95	90.00	8550.00	95	8550.00	

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16	Micro processor based electronic timer consisting of Display Unit(LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/contactor in programmable mode (pre-defined ON/OFF time) or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (lux level using IR sensor), built in software to select the mode of operation by the user	Each
17	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each
18	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b)40-63Amp SPN, Group A	Each
19	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,..... dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)32mm dia 2.5mm thick	Per Mtr
20	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Per Mtr
21	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 1990 4sq mm	Per Mtr
22	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Each
23	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm	Per Mtr
24	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm
25	Supplying..... amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips	Per Mtr
26	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr
27	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/ Microprocessed release and earth fault as per IS-13947(Icu=Ics). Four Pole. 100Amps 25kA.	Each
28	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. II Copper Strip B)25X3mm	Per Mtr
29		
	Total Rs	

GST As Per Temdy. Quoted Amount Rs

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

K.N. Babu
JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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	8	7000.00	56000.00	8	56000.00
	11	8000.00	88000.00	11	88000.00
	16	300.00	4800.00	16	4800.00
	95	30.00	2850.00	95	2850.00
	28	15.00	420.00	28	420.00
	250	5.00	1250.00	250	1250.00
	24	300.00	7200.00	24	7200.00
	25	300.00	7500.00	25	7500.00
	200000	0.30	60000.00	200000	60000.00
	0	200.00	0.00	0	0.00
	50	200.00	10000.00	50	10000.00
	10	4800.00	48000.00	10	48000.00
	0	75.00	0.00	0	0.00
			818985.00		**818985.00**

150000-00 150000-00

968985-00 968985-00

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